

HIGH DEFINITION DIGITAL TELEVISION

**36" (34" Viewable) 16:9 PERFECTLY FLAT
WIDE SCREEN**

34" (32" Viewable) 4:3 SUPER FLAT TUBE

29" (27" Viewable) 4:3 SUPER FLAT TUBE

USER MANUAL

<http://www.sampo.com.tw>

SAMPO Corporation

No. 201, Chung Shan Road, Sec. 1,
Panchiao, Taipei Hsien, Taiwan

Tel: 886-2-2961 1141

Fax: 886-2-2962 2051

E-mail: marcom@sampo.com.tw

TABLE OF CONTENTS

1.FCC STATEMENT.....	1
2.IMPORTANT SAFETY INSTRUCTION.....	2-5
3.BACK PANEL AND CONNECTION.....	6-7
4.LOCATION OF BUTTONS ON REMOTE CONTROL.....	8
5.USING THE TV' S ADVANCED FEATURES.....	9-15
6.USING THE MONITOR' S ADVANCED FEATURES.....	16-17
7.BATTERY IN REMOTE CONTROL.....	18
8.FRONT PANEL AND CONNECTIONS.....	19-21
9.ON SCREEN DISPLAY MENU SETTINGS.....	22-28
10. TROUBLE SHOOTING.....	29-30
11.FREQUENCY TABLE.....	31-33
12.SPECIFICATIONS.....	34-3

FCC CLASS B STATEMENT

IMPORTANT:

The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in strict accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measure:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnected cables and shield power cords must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment and invalidate the warranty.

CANADIAN COMPLIANCE STATEMENT:

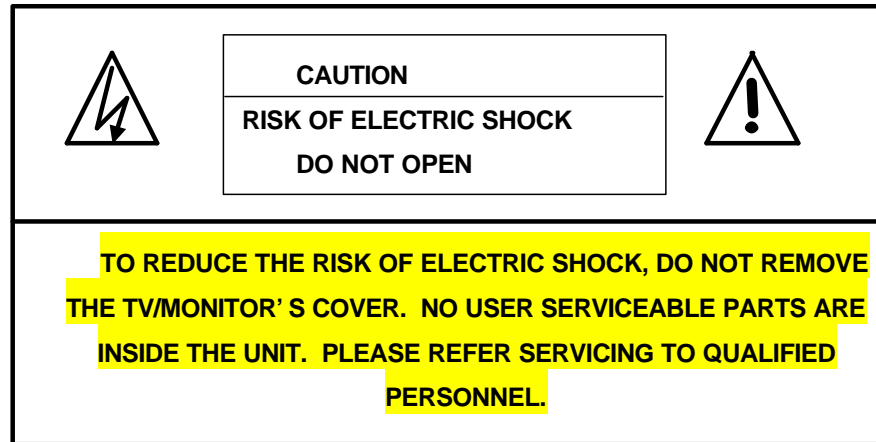
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CE (EUROPE) STATEMENT

1. Bitte lesen Sie sich diese Hinweise sorgfältig durch.
2. Heben Sie diese Anleitung für den späteren Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssig- oder Aerosolreiniger. Am besten dient ein angefeuchtetes Tuch zur Reinigung.
4. Um eine Beschädigung des Gerätes zu vermeiden sollten Sie nur Zubehörteile verwenden, die vom Hersteller zugelassen sind.
5. Das Gerät ist vor Feuchtigkeit zu schützen.
6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Verletzungen hervorrufen. Verwenden Sie nur sichere Standorte und beachten Sie die Aufstellhinweise des Herstellers.
7. Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
9. Die Netzanschlußsteckdose muß aus Gründen der elektrischen Sicherheit einen Schutzleiterkontakt haben.
10. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden.
11. Alle Hinweise und Warnungen die sich am Geräten befinden sind zu beachten.
12. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.
13. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. elektrischen Schlag auslösen.
14. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem Servicepersonal geöffnet werden.
15. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:
 - Netzkabel oder Netzstecker sind beschädigt.
 - Flüssigkeit ist in das Gerät eingedrungen.
 - Das Gerät war Feuchtigkeit ausgesetzt.
 - Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
 - Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
 - Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.
16. Bei Reparaturen dürfen nur Originalersatzteile bzw. Den Originalteilen entsprechende Teile verwendet werden. Der Einsatz von ungeeigneten Ersatzteilen kann eine weitere Beschädigung hervorrufen.
17. Wenden Sie sich mit allen Fragen die Service und Reparatur betreffen an Ihren Servicepartner. Somit stellen Sie die Betriebssicherheit des Gerätes sicher.

IMPORTANT SAFETY INSTRUCTIONS



WARNING:

1. To prevent fire or shock hazard, do not expose this monitor to rain to rain or moisture.
2. High voltage exists on the cathode-ray tube anode lead of this monitor. Before servicing, determine the presence of high voltage by connecting the H.V. meter between the anode of CRT cap and chassis only.

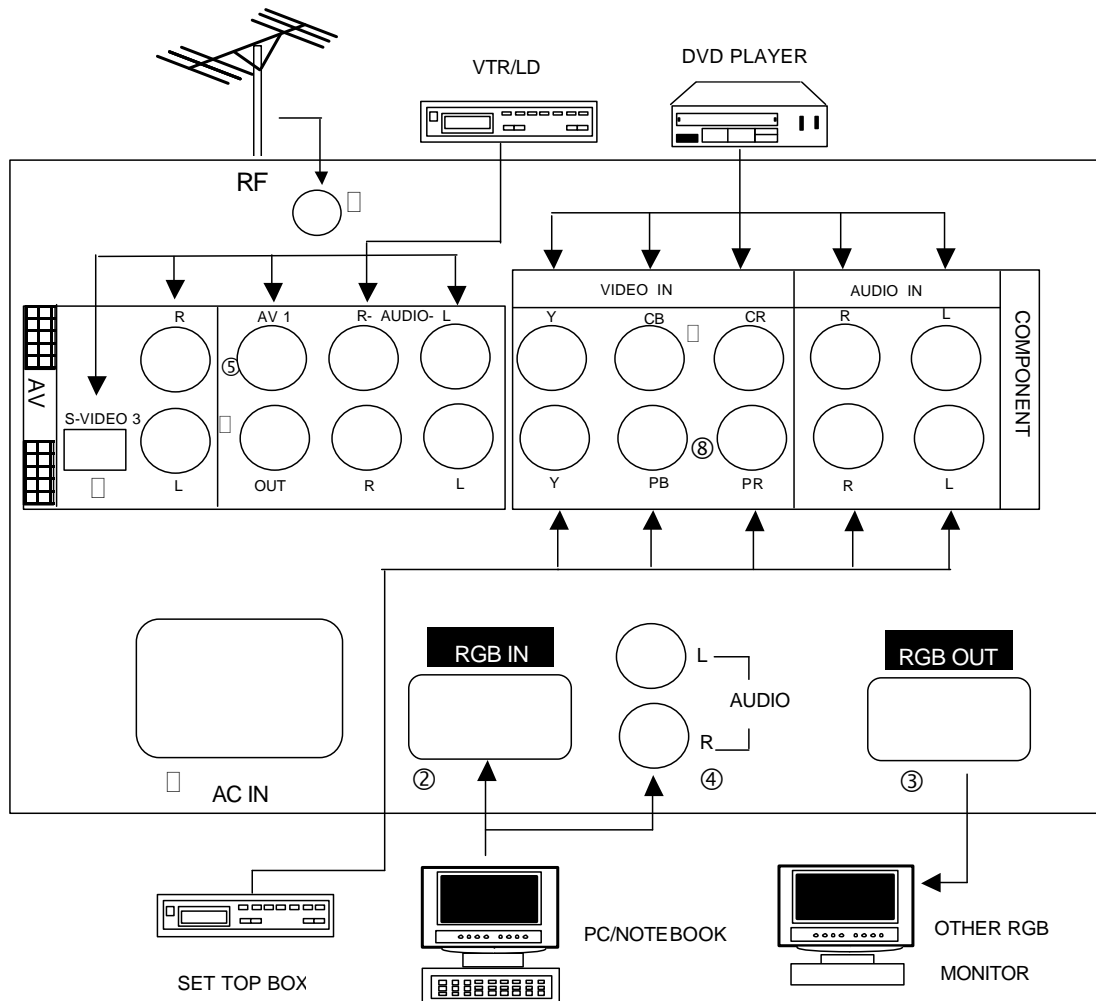
PRECAUTIONS:

1. Keep monitor away from excessive dust, high temperatures, moisture or direct sunlight.
2. Use in a well-ventilated area and do not cover ventilation openings.
3. Unauthorized modification to this equipment or usage of an unshielded connecting cable may cause excessive interference.
4. If the picture displayed is in any way abnormal, turn off the unit and disconnect it from the electric outlet. Verify your signal wire connections and reconnect the TV to the electric outlet.
5. Read all of these instructions and Save these instructions for later use.
6. Follow all warnings and instructions marked on the product.
7. Disconnect from the mains supply before cleaning. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
8. Do not use this product near water.
9. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage.
10. The ventilation slots located on the back of the cabinet are for proper heat dissipation. To ensure reliable operation of the unit and to protect it from overheating, do not block or cover the openings. Do not place the unit on a bed, sofa, rug, or other similar surfaces. Never place the unit near or over a radiator or heat source. Do not install unit in an enclosed area unless proper ventilation is provided.
11. The unit should be operated from the type of power source indicated on the label. If the type of available power is unknown, consult your dealer or local power company.

IMPORTANT SAFETY INSTRUCTIONS

12. The unit is equipped with a 3-pin grounded plug. The plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician. Do not alter the plug; this will defeat the safety feature.
13. Do not rest objects on the power cord.
14. Avoid placing the power cord near high traffic areas.
15. If an extension cord is used, make sure that the total ampere ratings of the products connected to the extension cord do not exceed the extension cord ampere rating. Also make sure that the total amperes of all products connected to the main outlet does not exceed 15 amperes.
16. Never push objects of any kind into the unit through its ventilation slots. This may result in dangerous voltage points or electrical shorting of parts, resulting in fire or electric shock. Never spill liquid of any kind on the unit.
17. Do not attempt to service unit yourself. Opening or removing the cover may result in exposure to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
18. Disconnect the unit from the main supply and refer servicing to qualified service personnel under the following conditions:
 - Power cord or plug is damaged or frayed.
 - Liquid has been spilled into the product.
 - Unit has been exposed to water or moisture.
 - Unit does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions, improper adjustment of other controls may result in damage which often requires extensive work by a qualified technician to restore the unit to normal operation.
 - Unit has been dropped or the cabinet has been damaged.
 - Unit exhibits a distinct change in performance, indicating a need for service.

BACK PANEL CONNECTIONS



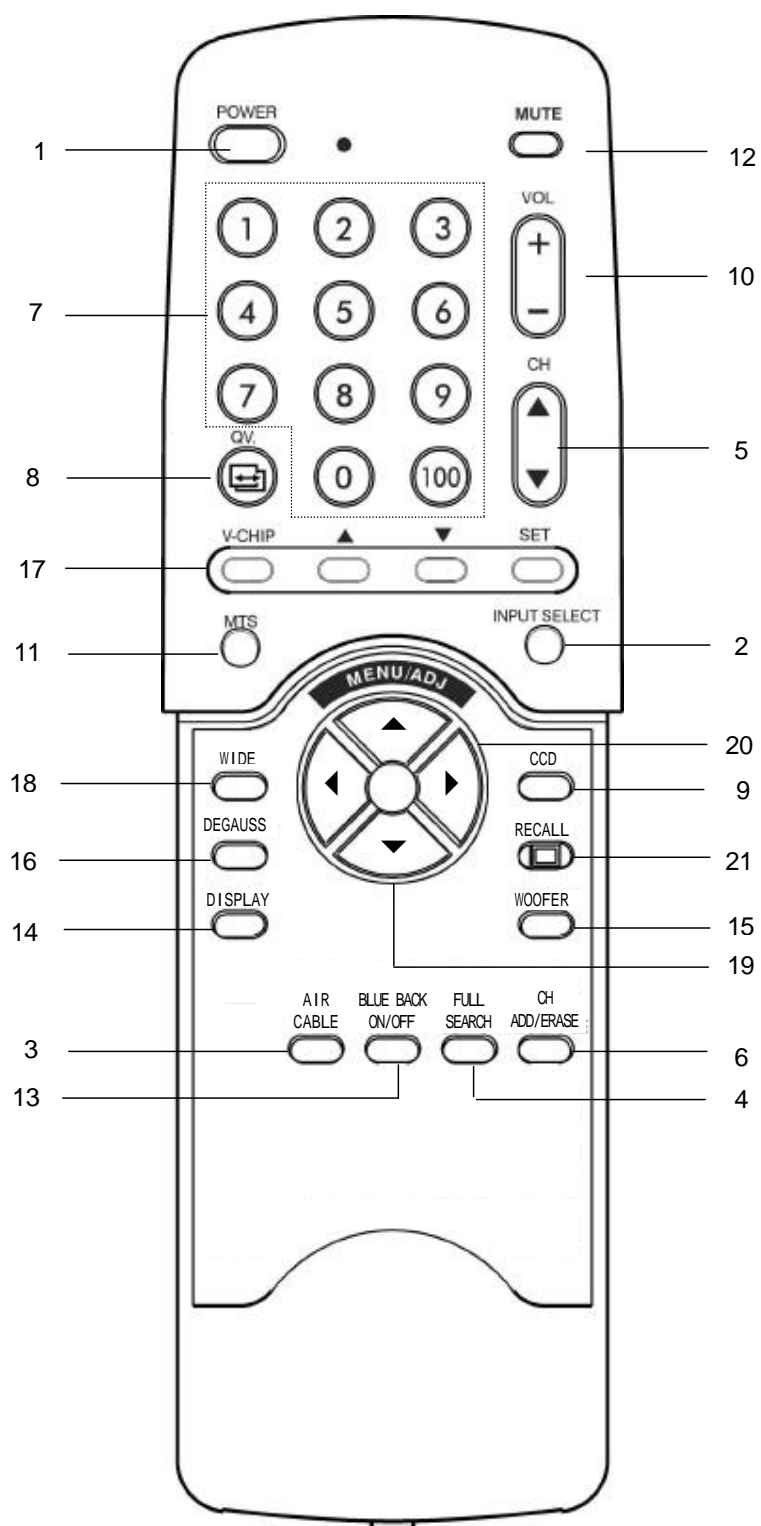
- ① **AC IN:** This terminal is for AC power cord.
- **RGB IN:** This terminal is for RGB analog signal, use with IBM PC and other compatibles.
- **RGB OUT:** Terminal for RGB signal output so that you can attach another display monitor to display the same RGB analog signal that your monitor is currently displaying.
- **RGB AUDIO IN:** These terminals are for sound signal when monitor is in RGB mode.
- **AV IN:** Terminals are for video and stereo sound signals, used with video equipment with composite video outputs.
- **S-VIDEO 3:** Terminals are for S-VIDEO and stereo sound signals, used with video equipment with Composite video outputs.
- **AV OUT:** Terminals can output composite video and sound signals that the monitor is using. AV OUT only supplies composite video signals. Y/PB/PR and Y/CB/CR signals are not supported.
- **Y/PB/PR:** Terminal is for progressive-scan component input (Y PB PR) video signals and stereo sound signals. This is used with progressive-scan video equipment such as progressive-scan DVD players and high end HDTV decoders.
- ⑨ **Y/CB/CR:** Terminal is for standard component video input (Y/CB/CR) video signals and stereo sound signals.
- **RF:** This terminal is for connect RF antenna or cable TV box.

BACK PANEL CONNECTIONS

NOTE:

- Before connecting any cables, refer to the safety instructions at the beginning of this manual and make sure the unit and the video equipment are both switched off.
- Be sure to lug the AC power cord to a properly grounded outlet.
- The AV OUT terminal only supplies AV1 or AV2 composite signals and does not supply Y/PB/PR or Y/CB/CR signals.

REMOTE CONTROL FUNCTIONS



REMOTE CONTROL FUNCTIONS

This television features “Digital Vision”, an advanced on-screen digital display and control system to adjust various settings within the television. These functions are accessible using the remote control for the television’s front control panels.

1. **POWER**



Pressing the POWER button turns on the unit. When power is on, the green POWER LED illuminates. When power is off, the unit switches to standby mode illuminating the red STANDBY LED.

2. **INPUT
SELECT**



Press button to select the source signal to display. Each time the input button is pressed, the on-screen display will toggle between “TV”, “AV1”, “AV2”, S-VIDEO 3, “Y/CB/CR”, “Y/PB/PR”, and “RGB”.

3. **AIR
CABLE**



Use the AIR/CABLE button to switch the tuner from receiving standard over the air broadcasts or standard cable television broadcasts. If AIR is selected, the TV can receive channels 2 to 69. If CABLE is selected, the TV can receive channels 1 to 125.

4. **FULL
SEARCH**

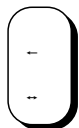


Use the FULL SEARCH button to automatically program the television to receive broadcasts from all available channels. When this button is pushed for 1.5 seconds, the TV will begin the FULL SEARCH process and memorize all available channels. The search takes some time and you can cancel the search by pressing the FULL SEARCH button during the search.

Note:

- If the tuner is set to AIR (see above), the search range is from CH2 to CH69. If the tuner is set to CABLE TV, the search range is from CH1 to CH125.
- The searching data for AIR TV mode and CABLE TV mode is independent. So the FULL SEARCH function must be performed twice, once in AIR mode and once in CABLE TV mode.


5. **CH**



Push “ ” and “ ” to change channels. The television will automatically skip blank channels.

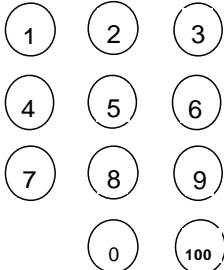
REMOTE CONTROL FUNCTIONS

6. **CH ADD/ERASE**




This button is used to add a channel to memory or erase a channel stored in memory. With the channel that you want to add or erase selected and displayed on the screen, press the CH ADD/ERASE button. The screen will display "ADD" or "ERASE". If "ADD" is displayed, it means that this channel can be added to memory and selectable using the channel buttons. If "ERASE" is displayed, it means that this channel is erasable from memory and will not be accessible using the channel buttons.

7. **Digit Keypad**




Use the digit keypad to select TV channels. Push any two digits on the keypad to select channels between CH1 and CH99. For example, to select CH2, simply push "0" and "2". You may also select a single-digit channel between CH2 and CH9 by simply pressing the corresponding digit key. When a single digit is pressed, the TV will wait for 5 seconds before changing the channel. To select channels beyond CH100, push the "100" key first followed by the last two digits of the channel. For example, to select CH107, push "100", "0", and "7".

8. **QV**



QV (Quick View) button allows you to instantly revert back to the previously selected channel.

9. **CCD**

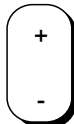


Use CCD to set closed caption mode. The CCD button toggles between the following modes:

```

graph LR
    A["CLOSED  
CAPTION  
OFF"] --> B["COLSED  
CAPTION  
1"]
    B --> C["COLSED  
CAPTION  
2"]
    C --> D["TEXT1"]
    D --> E["TEXT2"]
    E --> A
    
```


10. **VOL**





Press and hold the Volume + button to increase the volume level. Press and hold volume - button to decrease the volume level.


The Volume +/- buttons also function as ADJ +/- buttons for the On-Screen display functions


REMOTE CONTROL FUNCTIONS


11. **MTS**


Use MTS to toggle between SAP, MONO, or STEREO audio mode settings for your television program. SAP, MONO, and STEREO audio modes are only applicable to standard television broadcasts.
12. **MUTE**


Use **MUTE** button to quickly turn off the sound through the TV's internal speakers. Once pushed, the on-screen display will indicate the mute function is enabled. To disable the mute function, press the button again. The on-screen display will disappear and sound will be restored from the speakers.
13. **BLUE BACK ON/OFF**


Push this button to enable/disable the blue back function. The blue back function is used to suppress "snowflakes" and audible noise when the television cannot receive a TV broadcast signal. This function is only applicable to analog TV receptions.
14. **DISPLAY**


Use **DISPLAY** button to show channel information on the screen.
15. **WOOFER**


The built-in woofer can add a significant bass boost to the sound of your television/monitor. Press **WOOFER** button to switch the built-in woofer ON or OFF. Each time the button is pressed, the on-screen display will display "woofer on" or "woofer off".
16. **DEGAUSS**


Degaussing keeps the display free from unwanted magnetism that can result in color impurity. Each time the monitor is turned on, it is automatically degaussed. If the unit is displayed continuously, It is recommended that unit is degaussed at least once every few days to remove any color impurities. Whenever the degauss button is pushed, the display image blurs and a humming sound is heard. This is normal. The screen will return to normal operations in a matter of seconds. A minimum of 20 minutes should be observed between each use of the manual degauss button.

REMOTE CONTROL FUNCTIONS

17. V-CHIP



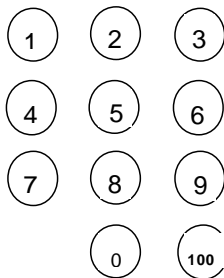
V-CHIP (Parental Guide)

This television is equipped with V-CHIP technology to prevent children from watching unsuitable programming.

To setup V-CHIP:

1. Press V-CHIP (blue) key on remote control to enter Parental Guide setting. Your television will display the following:

Enter
Parental code -----



2. Press the following number keys on the remote control to enter the initial parental code: **8, 4, 8, 4, 100**. After pressing the code, the screen will display "Parental Guide ON".to indicate the function is currently switched on.

Parental Guide
ON/OFF

Set Page+

V-CHIP



3. Press V-CHIP (blue) key to go into the next menu to setup parental control settings. The following menu is displayed:

Parental Guidelines

Rating	FV	V	S	L	D
TV-Y	u				
TV-Y7	u	u			
TV-G	u				
TV-PG	u	u	u	u	u
TV-14	u	u	u	u	u
TV-MA	u	u	u	u	

Set Page+

Menu Code Reference

FV	: Fantasy Violence
D	: Sexual Dialog
L	: Adult Language
S	: Sexual Situations
V	: Violence
TV-Y	: All Children
TV-Y7	: Older Children
TV-G	: General Audience
TV-PG	: Guidance Suggested
TV-14	: Strongly Cautioned
TV-MA	: Mature Audience

REMOTE CONTROL FUNCTIONS



4. Use **⏮** (yellow) or **⏭** (green) keys to select the rating you want to set. The selected rating will flash to indicate your selection. Use **SET** (red) key to toggle between the U (unblock) setting or B (block) setting.

Parental Guidelines					
Rating	FV	V	S	L	D
TV-Y	U				
TV-Y7	U	U			
TV-G	U				
TV-PG	B	B	B	B	B
TV-14	B	B	B	B	B
TV-MA	B	B	B	B	
<div> <div>Set</div> <div></div> <div></div> <div>Page+</div> </div>					

V-CHIP

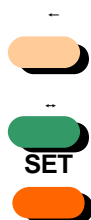


5. Press **V-CHIP** (blue) key again to access the Motion Picture Association of America (MPAA) menu. The MPAA rating menu will display as follows:

MPAA	Rating
Movie	Ratings
G	U
PG	U
PG-13	U
R	U
NC-17	U
X	U
<div> <div>Set</div> <div></div> <div></div> <div>Page+</div> </div>	

Menu Code Reference

G	: General Audience
PG	: Parental Guidance
PG-13	: Strongly Cautioned
R	: Restricted
NC-17	: No One Under 17
X	: No One Under 17



6. Use **⏮** (yellow) or **⏭** (green) keys to select the MPAA rating you wish to set. The selected rating will flash to indicate your selection. Use **SET** (red) key to toggle between the U (unblock) setting or B (block) setting.

MPAA	Rating
Movie	Ratings
G	u
PG	u
PG-13	u
R	B
NC-17	B
X	B
<div> <div>Set</div> <div></div> <div></div> <div>Page+</div> </div>	

REMOTE CONTROL FUNCTIONS

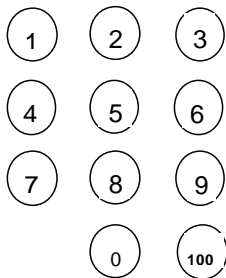
V-CHIP



7. After the above setting is completed, press V-CHIP (blue) key to set the parental code.

Set

Parental code * * * * *



8. Enter a new passcode using the digit keys on the remote control. The pass code must be 5 digits. When you've completed entering the 5-digit code, press V-CHIP (blue) key to complete the process. You can also keep the original passcode by not entering a new pass code and pressing the V-CHIP (blue) key.

Note:

If the pass code is forgotten, use the initial pass code of 8,4,8,4,100. This is a master code that will override the system.

V-CHIP



Parental Guide

ACCOMPLISHED

9. When watching a channel or program that is blocked by the V-CHIP, the following screens will display:

Blocked 13

Parental Guidelines

V-PG VS

Blocked 13

MPAA Rating

MPAA NC-17

REMOTE CONTROL FUNCTIONS

18.



For SME-34WHD5 Only

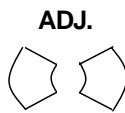
When the source of display is AV1 or AV2 or Y/CB/CR, press the WIDE button to select the display aspect ratio. Each time the WIDE button is pressed, the on-screen display will toggle between “4:3” and “16:9”.

19.



To display the monitor's on-screen display, press menu button. The first line of the window displays the master picture menu and the setting of a selected feature. The last line of the window reports the current resolution and frequency settings.

20.



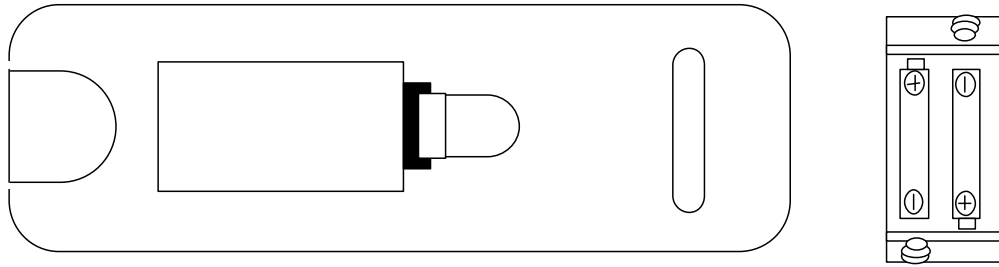
After you have selected a category, you can increase or decrease a display setting. Here's how to adjust a setting: Press the menu button. While the master picture menu is on screen, use the menu select key to choose a category. Once you have selected a category, press the ADJ ◀ ▶ button. Each time the ADJ ▶ button is pressed, the settings for the category selected will increase. Each time the ADJ ◀ button is pressed, the settings for the selected category will decrease.

21.



Press RECALL button to reset various settings to the factory's pre-set default value. RECALL function is not supported when the unit is using RGB or Y/PB/PR as the input source.

BATTERY IN REMOTE CONTROL



Open the cover on the back of the remote insert two R06/AA/SUM-3 batteries.

Be sure the polarity is correct.

Replace the cover.

NOTES :

To avoid damage from possible battery leakage, remove the batteries for extended unused periods.

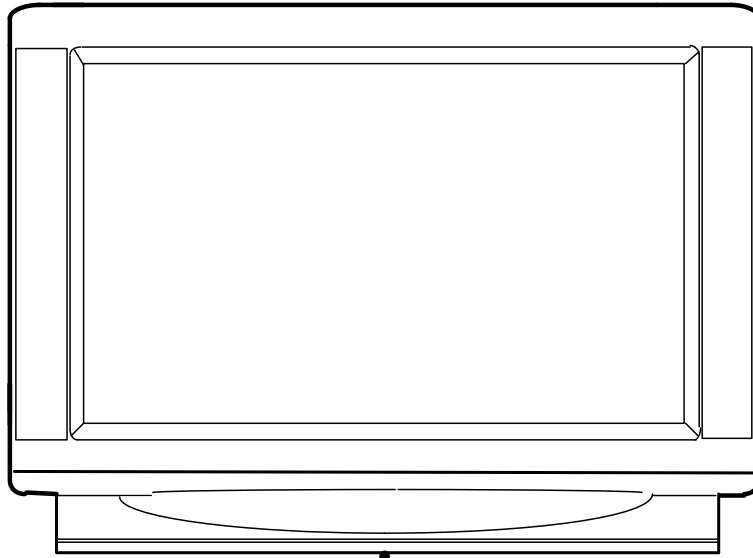
Be sure that there are no obstructions between the Remote Control and the monitor.

Operating range is specified for normal use.

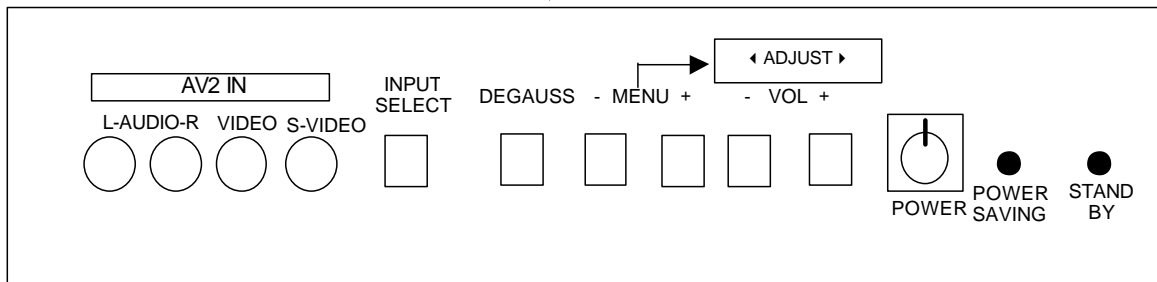
The shorter the distance between the Remote control and the monitor narrower the angle within which the Remote Control can operate the monitor.

FRONT PANEL AND CONNECTIONS

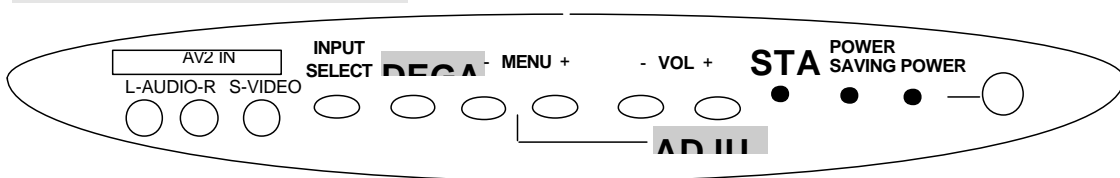
Front View



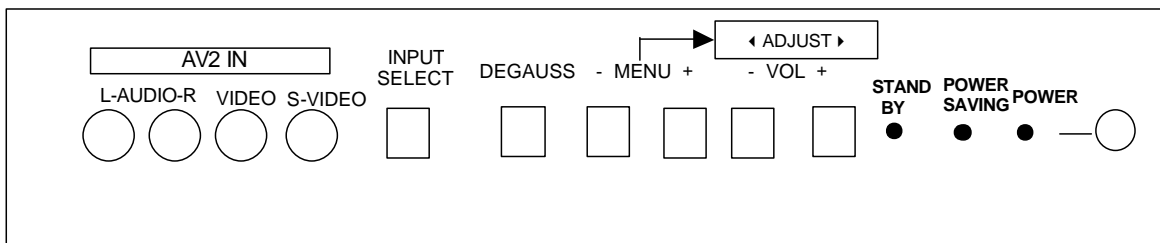
36" (34" Viewable) 16:9 MONITOR



34" (32" Viewable) 4:3 MONITOR



29" (27" Viewable) 4:3 MONITOR



NOTE:

- Before connecting any cables to the AV2 IN terminals, make sure the unit and the video equipment are both switched off.

FRONT PANEL AND CONNECTIONS

1. **POWER**



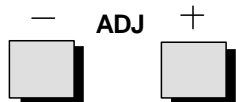
Pressing the POWER button turns on the unit. When power is on, the green POWER LED illuminates. When power is off, the unit switches to standby mode illuminating the red STANDBY LED.

2. **MENU**



To display the monitor's on-screen display, press menu +/- button. The first line of the window displays the master picture menu and the setting of a selected feature. The last line of the window reports the current resolution and frequency settings.

3. **ADJ**



The VOLUME -/+ buttons turns up the volume of your TV/monitor. These buttons also function as the ADJ - / + buttons for setting TV/Monitor settings.

4. **DEGAUSS**

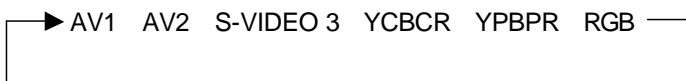


Degaussing keeps the display free from unwanted magnetism that can result in color impurity. Each time the monitor is turned on, it is automatically degaussed. If the unit is displayed continuously, It is recommended that unit is degaussed at least once every few days to remove any color impurities. Whenever the degauss button is pushed, the display image blurs and a humming sound is heard. This is normal. The screen will return to normal operations in a matter of seconds. A minimum of 20 minutes should be observed between each use of the manual degauss button.

5. **INPUT
SELECT**



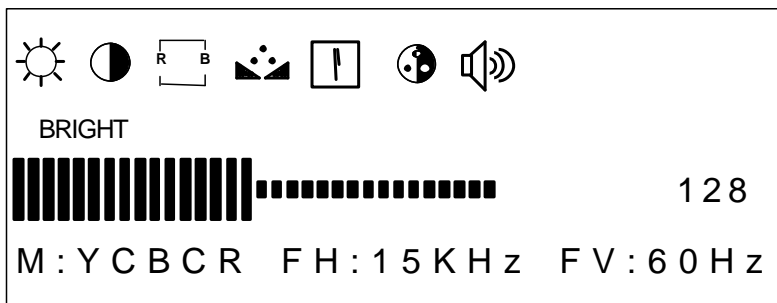
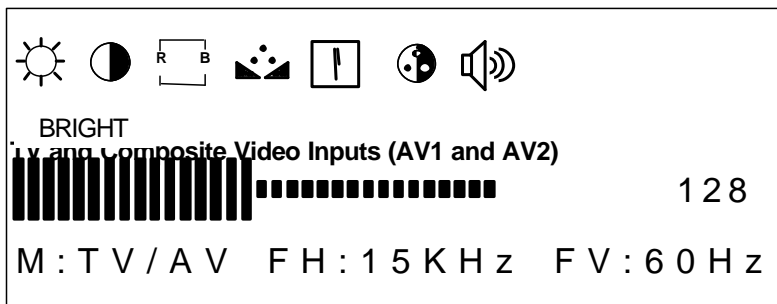
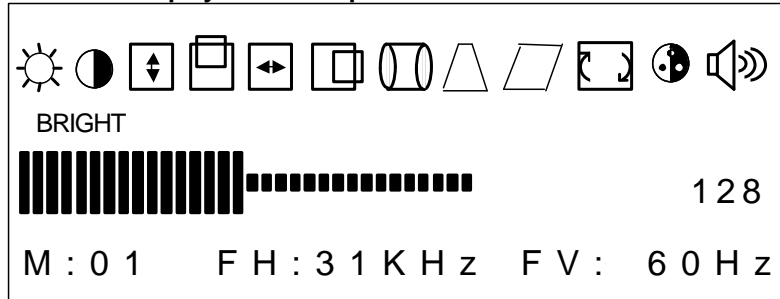
Press button to select the source of display. Each time the input button is pressed, the on-screen display will toggle between "AV1", "AV2", S-VIDEO 3, "Y/CB/CR", "Y/PB/PR", and "RGB".



ON SCREEN DISPLAY MENU SETTINGS

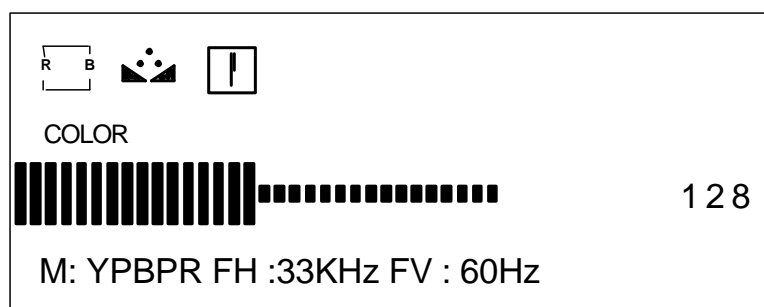
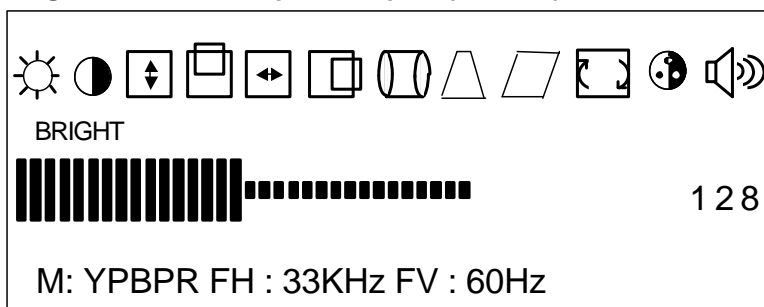
The TV/Monitor function settings are set using the on-screen display. To access function settings, simply press the MENU - / + keys on the front control panel or your remote control. Different function settings are available for the different types of signal inputs. The following diagram shows the different on-screen displays available for different input signals.

On-Screen Display for RGB Input



Std. Component Input (Y/CB/CR)

Progressive Scan Component Inputs (Y/PB/PR)



To change the setting of a particular function, you must first highlight the function by pressing the MENU +/- buttons while the OSD is displayed. This will toggle between the displayed functions. After selecting the function to set, press the ADJ + or ADJ - buttons to adjust the function setting. Each time the ADJ + button is pressed, the settings for the function will increase. Each time the ADJ - button is pressed, the setting for the category will decrease.

The following explains the each function setting:



BRIGHTNESS: Select icon to adjust the overall picture brightness (image black level). Set the brightness so that the dark areas of the monitor remain black. Press the ADJ - button to decrease brightness. Press the ADJ + button to increase brightness. This setting is available to all video signal inputs.



CONTRAST: Select icon to adjust the contrast (image white level). Contrast is the difference in brightness between the dark and light parts of the displayed image. Press the ADJ- button to decrease contrast. Press the ADJ + button to increase contrast. This setting is available to all video signal inputs.



V-SIZE (Vertical Size): Select icon to adjust the vertical size of the displayed image. Press the ADJ - button to decrease V-Size. Press the ADJ + button to increase V-Size. This setting is only available to RGB and Y/PB/PR input signals.



V-CENTER (Vertical Position): Select icon to adjust the vertical position of the displayed image. Press the ADJ- button to decrease V-Position. Press the ADJ+ button to increase V-Position. This setting is only available to RGB and Y/PB/PR input signals.

ON SCREEN DISPLAY MENU SETTINGS



H-WIDTH (Horizontal Size): Select icon to adjust the horizontal size of the displayed image. Press the ADJ- button to decrease H-Width. Press the ADJ + button to increase H-Width. This setting is only available to RGB and Y/PB/PR input signals.



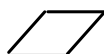
H-PHASE (Horizontal Position): Select icon to adjust the horizontal position of the displayed image. Press the ADJ- button to decrease H-Phase. Press the ADJ + button to increase H-Phase. This setting is only available to RGB and Y/PB/PR input signals.



PINCUSHION: Select icon to adjust the amount of tapering on each side of the displayed image. Press the ADJ- button to decrease the amount of side pincushion. Press the ADJ + button to increase the amount of side pincushion. This setting is only available to RGB and Y/PB/PR input signals.



TRAPEZOID: Select icon to adjust the trapezoid. Press ADJ - button to move the upper screen to center and to move the lower screen to the outside. Press ADJ + button to move the upper screen to the outside and to move the lower screen to the center. This setting is only available to RGB and Y/PB/PR input signals.



PARALLELOGRAM: Select icon to adjust the parallelogram. Press ADJ + button to slant the screen to left side and press ADJ - button to slant the screen to right side. This setting is only available to RGB and Y/PB/PR input signals.



ROTATION: Select icon to adjust the screen tilt of the displayed image. This is used to compensate for earth magnetic field effect on the monitor. This setting is only available to RGB and Y/PB/PR input signals.



R-GAIN: Select icon to change the gain of red.

G-GAIN: Select icon to change the gain of green.

B-GAIN: Select icon to change the gain of blue.



These settings are available to all video signal inputs.

BASS: Select icon to adjust bass level of sound.

TREBLE: Select icon to adjust treble level of sound.

BALANCE: Select icon to adjust the left and the right balance.



These settings are available to all video signal inputs.

COLOR: Select icon to adjust the color of the displayed image. Press the ADJ - button to decrease color. Press the ADJ + button to increase color. This setting is available to TV/AV (Composite video AV1 & AV2), Y/CB/CR and Y/PB/PR signal inputs.



TINT: Select icon to adjust the tint of the displayed image. Press the ADJ + button to increase the level of green in the image. Press the ADJ - button to increase the level of red in the image. This setting is available to TV/AV (Composite video AV1 & AV2), Y/CB/CR and Y/PB/PR signal inputs. This function is not applicable with PAL video signals.



SHARPNESS: Select icon to adjust the sharpness of the displayed image. Press the ADJ - button to decrease sharpness. Press the ADJ + button to increase sharpness. This setting is available to TV/AV (Composite video AV1 & AV2), Y/CB/CR and Y/PB/PR signal inputs.

POWER MANAGEMENT FUNCTION

The following is a description of the power states and the power consumed in each state:

MODE	LED	H-SYNC	V-SYNC	VIDEO	POWER CONSUMPTION
on	green	pulse	pulse	active	normal
power saving	yellow	no pulse	pulse	blanked	<30W
power saving	yellow	pulse	no pulse	blanked	<30W
power saving	yellow	no pulse	no pulse	blanked	<30W



NOTE:

- The power management function requires TTL horizontal and vertical sync.
- Power saving is invalid if display is in TV, AV, Y CB CR, Y PB PR mode.

As an ENERGY STAR® partner, SAMPO CORPORATION has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

TROUBLE SHOOTING

Please refer to the following checklist for remedies to common problems before contacting a service representative.

Trouble condition	Cause	Remedy
No picture	<ol style="list-style-type: none"> 1. Power cord disconnected. 2. Power not switched on. 3. Improperly connected signal cable. 4. Monitor in power save mode. 	<ol style="list-style-type: none"> 1. Connect power cord. 2. Turn the power switch on. 3. Connect the signal properly. 4. Press any key on computer.
Color is abnormal	<ol style="list-style-type: none"> 1. Magnetic object nearby. 2. Direction of screen changed during operation. 3. Improperly connected signal cable. 	<ol style="list-style-type: none"> 1. Move the magnetic object away. 2. Turn OFF the power switch and wait 10 minutes. Turn on the power and degauss circuit within monitor. 3. Connect signal cable properly.
Picture runs	<ol style="list-style-type: none"> 1. Improperly connected signal cable. 2. Input signal frequency is being the normal operating range of the monitor. 	<ol style="list-style-type: none"> 1. Connect signal cable properly. 2. Readjust your input signal to within the normal frequency range of the monitor.
Display image is too dark	<ol style="list-style-type: none"> 1. Brightness and contrast settings set at minimum. 	<ol style="list-style-type: none"> 1. Adjust brightness and contrast.
Display image is too large or small	<ol style="list-style-type: none"> 1. Horizontal size control needs adjustment. 2. Vertical size control needs adjustment. 	<ol style="list-style-type: none"> 1. Use the horizontal size control function setting to adjust the image to desired size. 2. Use the vertical size control function setting to adjust the image to desired size.
Image is distorted	<ol style="list-style-type: none"> 1. Earth's natural magnetic field interfering with display. 2. Picture appears  or  	<ol style="list-style-type: none"> 1. Use the rotation function setting to adjust the image. 2. Use the pincushion function setting to adjust the image.
Remote control is not functioning	<ol style="list-style-type: none"> 1. Weak or dead batteries. 2. Outside interference. 	<ol style="list-style-type: none"> 1. Replace batteries. 2. Turn off the TV and disconnect the AC power cord from the wall. Wait 10 seconds and reconnect the AC power cord. Turn on the television again.
With sound no picture	<ol style="list-style-type: none"> 1. Antenna direction changed? 2. Antenna a properly connected? 	<ol style="list-style-type: none"> 1. To verify the direction of antenna. 2. To verify whether the cable was connected in properly.
With picture no sound	<ol style="list-style-type: none"> 1. Antenna has trouble? 2. Volume adjust to min.? 3. Without connecting audio cable? 4. Non-integrate signal proanced? 	<ol style="list-style-type: none"> 1. To verify the direction of antenna. 2. To adjust the volume in properly. 3. To connect the audio cable in properly. 4. Try other channels.
No picture just blue back	<ol style="list-style-type: none"> 1. Antenna properly connected? 2. Non-integrate signal proanced? 	<ol style="list-style-type: none"> 1. To verify the direction of antenna. 2. Try other channels.
Picture repeat	<ol style="list-style-type: none"> 1. The location of antenna is appropriately? 	<ol style="list-style-type: none"> 1. The reflex wave is effected by mountain building and tree to cause picture repeat. Try to change the direction and highness of antenna.
Appear cross line	<ol style="list-style-type: none"> 1. Effect by other station . 	<ol style="list-style-type: none"> 1. Try to change the direction and highness of antenna
Picture with snowflakes and noise.	<ol style="list-style-type: none"> 1. Antenna has trouble ? 2. Antenna properly connected ? 3. Antenna direction changed ? 	<ol style="list-style-type: none"> 1. To verify the direction of antenna. 2. To verify whether the cable was connected in properly. 3. To verify the direction of antenna.

FREQUENCY TABLE

Band	AIR CB		CATV CH				
	CH DISP	FP (MHZ)	CH DISP	CB NO	FP (MHZ)		
					STD	BRC	IRC
VHF	02	55.25	02	2	55.25	54.00	55.25
LOW	03	61.25	03	3	61.25	60.00	61.25
	04	67.25	04	4	67.25	66.00	67.25
			01	4A	72.00	73.25
	05	77.25	05	5	77.25	78.00	79.25
	06	83.25	06	6	83.25	84.00	85.25
			95	A-5	91.25	90.00	91.25
			96	A-4	97.25	96.00	97.25
			97	A-3	103.25	102.00	103.25
			98	A-2	109.25	108.00	109.25
			99	A-1	115.25	114.00	115.25
			14	A	121.25	120.00	121.25
			15	B	127.25	126.00	127.25
VHF			16	C	133.25	132.00	133.25
BIGB			17	D	139.25	138.00	139.25
			18	E	145.25	144.00	145.25
			19	F	151.25	150.00	151.25
			20	G	157.25	156.00	157.25
			21	B	163.25	162.00	163.25
			22	1	169.25	168.00	169.25
	07	175.25	07	7	175.25	174.00	175.25
	08	181.25	08	8	181.25	180.00	181.25
	09	187.25	09	9	187.25	186.00	187.25
	10	193.25	10	10	193.25	192.00	193.25
	11	199.25	11	11	199.25	198.00	199.25
	12	205.25	12	12	205.25	204.00	205.25
	13	211.25	13	13	211.25	210.00	211.25
			23	J	217.25	216.00	217.25
			24	K	223.25	222.00	223.25
			25	L	229.25	228.00	229.25
			26	M	235.25	234.00	235.25
			27	N	241.25	240.00	241.25
			28	O	247.25	246.00	247.27
			29	P	253.25	252.00	253.25

FREQUENCY TABLE

Band Assign- ment	AIR CB		CATV CH				
	CH DISP	FP (MHZ)	CH DISP	CB NO	FP (MHZ)		
					STD	BRC	IRC
			30	Q	259.25	258.00	259.25
			31	R	265.25	264.00	265.25
			32	S	271.25	270.00	271.25
			33	T	277.25	276.00	277.25
			34	U	283.25	282.00	283.25
			35	V	289.25	288.00	289.25
			36	W	295.25	292.00	295.25
			37	+1	301.25	300.00	301.25
			38	+2	307.25	306.00	307.25
			39	+3	313.25	312.00	313.25
			40	+4	319.25	318.00	319.25
			41	+5	325.25	324.00	325.25
			42	+6	331.25	330.00	331.25
			43	+7	337.25	336.00	337.25
			44	+8	343.25	342.00	343.25
			45	+9	349.25	348.00	349.25
			46	+10	355.25	354.00	355.25
			47	+11	361.25	360.00	361.25
			48	+12	367.25	366.00	367.25
			49	+13	375.25	372.00	373.25
			50	+14	379.25	378.00	379.25
			51	+15	385.25	384.00	385.25
			52	+16	391.25	390.00	391.25
			53	+17	397.25	396.00	397.25
			54	+18	403.25	402.00	403.25
			55	+19	409.25	408.00	409.25
			56	+20	415.25	414.00	415.25
			57	+21	421.25	420.00	421.25
			58	+22	427.25	426.00	427.25
UHF			59	V+23	433.25	432.00	433.25
			60	V+24	439.25	438.00	439.25
			61	V+25	445.25	444.00	445.25
			62	V+26	451.25	450.00	451.25
			63	V+27	457.25	456.00	457.25
			64	V+28	463.25	462.00	463.25
			65	V+29	469.25	468.00	469.25
	14	471.25	66	V+30	475.25	474.00	475.25
	15	477.25	67	V+31	481.25	480.00	481.25
	16	483.25	68	V+32	487.25	486.00	487.25
	17	489.25	69	V+33	493.25	492.00	493.25
	18	495.25	70	V+34	499.25	498.00	499.25
	19	501.25	71	V+35	505.25	504.00	505.25
	20	507.25	72	V+36	511.25	510.00	511.25
	21	513.25	73	V+37	517.25	516.00	517.25

FREQUENCY TABLE

Band Assign- ment	AIR CH		CATV CH				
	CH DISP	FP (MHZ)	CH DISP	CB NO	FP (MHZ)		
					STD	BRC	IRC
	22	519.25	74	V+38	523.25	522.00	523.25
	23	525.25	75	V+39	529.25	528.00	529.25
	24	531.25	76	V+40	535.25	534.00	535.25
	25	537.25	77	V+41	541.25	540.00	541.25
	26	543.25	78	V+42	547.25	546.00	547.25
	27	549.25	79	V+43	553.25	552.00	553.25
	28	555.25	80	V+44	559.25	558.00	559.25
	29	561.25	81	V+45	565.25	564.00	565.25
	30	567.25	82	V+46	571.25	570.00	571.25
	31	573.25	83	V+47	577.25	576.00	577.25
	32	579.25	84	V+48	583.25	582.00	583.25
	33	585.25	85	V+49	589.25	588.00	589.25
	34	591.25	86	V+50	595.25	594.00	595.25
	35	597.25	87	V+51	601.25	600.00	601.25
	36	603.25	88	V+52	607.25	606.00	607.25
	37	609.25	89	V+53	613.25	612.00	613.25
	38	615.25	90	V+54	619.25	618.00	619.25
	39	621.25	91	V+55	625.25	624.00	625.25
	40	627.25	92	V+56	631.25	630.00	631.25
	41	633.25	93	V+57	637.25	636.00	637.25
	42	639.25	94	V+58	643.25	642.00	643.25
	43	645.25	100	V+59	649.25	648.00	649.25
	44	651.25	101	V+60	655.25	654.00	655.25
	45	657.25	102	V+61	661.25	660.00	661.25
	46	663.25	103	V+62	667.25	666.00	667.25
	47	669.25	104	V+63	673.25	672.00	673.25
	48	675.25	105	V+64	679.25	678.00	679.25
	49	681.25	106	V+65	685.25	684.00	685.25
	50	687.25	107	V+66	691.25	690.00	691.25
	51	693.25	108	V+67	697.25	696.00	697.25
	52	699.25	109	V+68	703.25	702.00	703.25
	53	705.25	110	V+69	709.25	708.00	709.25
	54	711.25	111	V+70	715.25	714.00	715.25
	55	717.25	112	V+71	721.25	720.00	721.25
	56	723.25	113	V+72	727.25	726.00	727.25
	57	729.25	114	V+73	733.25	732.00	733.25
	58	735.25	115	V+74	739.25	738.00	739.25
	59	741.25	116	V+75	745.25	744.00	745.25
	60	747.25	117	V+76	751.25	750.00	751.25
	61	753.25	118	V+77	757.25	756.00	757.25
	62	759.25	119	V+78	763.25	762.00	763.25
	63	765.25	120	V+79	769.25	768.00	769.25
	64	771.25	121	V+80	775.25	774.00	775.25
	65	777.25	122	V+81	781.25	780.00	781.25
	66	783.25	123	V+82	787.25	786.00	787.25
	67	789.25	124	V+83	793.25	792.00	793.25
	68	795.25	125	V+84	799.25	798.00	795.25
	69	801.25					

SPECIFICATIONS

MULTIMEDIA MONITOR	36" (16:9)	34" (4:3)	29" (4:3)
1. Cathode ray tube			
a. tube size	36 inch (16:9 Aspect Ratio)	34 inch (32 inch viewable)	29 inch (27 inch viewable)
b. Dot pitch	H=0.82mm	H=0.8mm	H=0.74mm
c. Light transmission	76% (typical)	35% typical	49% typical
2. Power			
a. Input voltage	100 Vac ~ 240 Vac 60Hz / 50Hz	100 Vac ~ 240 Vac 60Hz / 50Hz	100 Vac ~ 240 Vac 60Hz / 50Hz
b. Input current	3A at 110Vac / 60Hz Max	3A at 110Vac / 60Hz Max	3A at 110Vac / 60Hz Max
c. Power consumption	200 Watts(Max)	220 Watts(Max)	180 Watts(Max)
3. Input signal			
Video signal			
a. Type	Analog	Analog	Analog
b. Polarity	Positive	Positive	Positive
c. Amplitude	RGB: 0.714 Vp-p Y PB PR: 1Vp-p (with sync) AV: 1Vp-p (with sync) Y CB CR: 1Vp-p (with sync)	RGB: 0.714 Vp-p Y PB PR: 1Vp-p (with sync) AV: 1Vp-p (with sync) Y CB CR: 1Vp-p (with sync)	RGB: 0.714 Vp-p Y PB PR: 1Vp-p (with sync) AV: 1Vp-p (with sync) Y CB CR: 1Vp-p (with sync)
d. Input impedance	75 ohms	75 ohms	75 ohms
e. Dot rate	75 MHz(Max.)	75 MHz(Max.)	75 MHz(Max.)
Audio Signal			
a. Type	Analog	Analog	Analog
b. Polarity	1.0Vp-p	1.0Vp-p	1.0Vp-p
c. Amplitude	10K	10K	10K
Horizontal sync			
a. Type	TTL	TTL	TTL
b. Polarity	Positive or negative	Positive or negative	Positive or negative
c. Input impedance	1K ohm(Min)	1K ohm(Min)	1K ohm(Min)
d. Frequency	RGB: 31 KHz ~ 52 KHz Y PB PR: 31KHz~45KHz AV/Y CB CR: 15.734 KHz (NTSC) 15.625 KHz (PAL)	RGB: 31 KHz ~ 52 KHz Y PB PR: 31KHz~45KHz AV/Y CB CR: 15.734 KHz (NTSC) 15.625 KHz (PAL)	RGB: 31 KHz ~ 52 KHz Y PB PR: 31KHz~45KHz AV/Y CB CR: 15.734 KHz (NTSC) 15.625 KHz (PAL)
Vertical sync			
a. Type	TTL	TTL	TTL
b. Polarity	Positive or negative	Positive or negative	Positive or negative
c. Input impedance	1K ohm(Min)	1K ohm(Min)	1K ohm(Min)
d. Frequency	RGB: 50 Hz ~ 120 Hz Y PB PR: 60 Hz AV/Y CB CR: 60 Hz (NTSC) 50 Hz (PAL)	RGB: 50 Hz ~ 120 Hz Y PB PR: 60 Hz AV/Y CB CR: 60 Hz (NTSC) 50 Hz (PAL)	RGB: 50 Hz ~ 120 Hz Y PB PR: 60 Hz AV/Y CB CR: 60 Hz (NTSC) 50 Hz (PAL)
4. Connector type	15 pin D-type and RCA JACK and S-terminal	15 pin D-type and RCA JACK and S-terminal	15 pin D-type and RCA JACK and S-terminal
5. Horizontal size	725 +/- 8 mm (for RGB mode 1-9)	620 +/- 8 mm (for RGB mode 1-9)	520 +/- 6 mm (for RGB mode 1-9)
Vertical size	408 +/- 8 mm (for RGB mode 1-9)	465 +/- 8 mm (for RGB mode 1-9)	388 +/- 6 mm (for RGB mode 1-9)

SPECIFICATIONS

- | MULTIMEDIA MONITOR | 36" (16:9) | 34" (4:3) | 29" (4:3) |
|--|--|------------------|-----------------|
| 6. Unit dimension:
W x H x D (mm) | 1000 x 636 x 695 | 866 x 718 x 583 | 742 x 575 x 512 |
| Packaging dimension :
W x H x D (mm) | 1165 x 870 x 900 | 1030 x 870 x 760 | 880 x 647 x 580 |
| 7. Net weight of unit : | 87 Kg | 71 Kg | 51 Kg |
| 8. User Controls: | Power, Brightness, Contrast, V-Size, V-Center, H-Width, H-Phase, Degauss, Pincushion, Trapezoid, Parallelogram, Rotation, R-Gain, G-Gain, B-Gain, Bass, Treble, Balance, Color, Tint, Sharpness, Mute, Volume, Woofer, Recall, Input Select, WIDE. | | |
| 9. Operating temperature: | 0 to 40 | | |
| 10. Pin assignments for D-type connector | | | |
| Pin 1 : RED | Pin 6 : RED RETURN | Pin 11 : GND | |
| Pin 2 : GREEN | Pin 7 : GREEN RETURN | Pin 12 : SDA | |
| Pin 3 : BLUE | Pin 8 : BLUE RETURN | Pin 13 : H-SYNC | |
| Pin 4 : GND | Pin 9 : NC | Pin 14 : V-SYNC | |
| Pin 5 : GND | Pin10: GND | Pin 15 : SCL | |
| 11. | | | |
| a. The table below is required timings and technical description for the | | | |
| 36" tube (H=725mm, V=408mm standard size), | | | |
| 34" tube (H=620mm, V=465mm standard size), | | | |
| 29" tube (H=520mm, V=388mm standard size). | | | |

Mode No.	1	2	3	4	5	6	7	8	9	HDTV①	HDTV②	
Resolution	640	640	720	640	800	800	640	800	1024	1280	1920	
&	480	480	400	480	600	600	480	600	768	720	1080	
Refresh Rate	60	72	70	66.6	60.317	56.25	85	72	60	60	60	Hz
Pixel timing +/- .5%	39.722	31.746	35.311	33.06	25	27.8	36	50	15.385	13.468	13.468	n Sec
Horizontal visible	640	640	720	640	800	800	640	800	1024	1280	1920	Dots
Horizontal total	800	832	900	864	1056	1024	832	1040	1344	1650	2200	Dots
Horizontal front porch	16	16	18	64	40	24	56	56	40	112	80	Dots
Horizontal sync	96	40	108	64	128	72	56	120	145	76	76	Dots
Horizontal back porch	48	136	54	96	88	128	80	64	105	72	36	Dots
Hor blanking time	160	192	180	224	256	224	192	240	290	260	192	Dots
Vertical visible	480	480	400	480	600	600	480	601	768	720	1080	Lines
Vertical total	525	520	449	525	628	625	509	667	806	750	1125	Lines
Vertical front porch	10	1	12	3	1	1	1	1	1	5	2	Lines
Vertical sync	2	3	2	3	4	2	3	6	6	5	5	Lines
Vertical back porch	33	36	35	39	23	22	22	23	29	20	15	Lines
Vertical blanking time	45	40	49	45	28	25	26	30	36	30	22	Lines
Horizontal frequency	31.469	37.861	31.467	35	37.879	35.156	43.27	48.09	48.363	45.1515	33.78	KHz
Vertical frequency	59.940	72.809	70.082	66.667	60.317	56.250	85	72	60	60	60	Hz
Vertical sync polarity	-	-	+	-	+	+	-	+	-	-	-	TTL
Hor sync polarity	-	-	-	+	+	+	-	+	-	-	-	TTL
Dot rate	25.2	31.2	28.3	30.204	40	35.97	36	50	65	74.25	74.25	MHz

The SYNC-ON-GREEN recall is just proper MODE 4.

b.YPBPR mode: mode 1 : 1080I (H=33KHz, V=60Hz)

mode 2 : 720p (H=45KHz, V=60Hz)